

503048-US-CIP (BAGGA) Serial No. 10/815,191 Ryan, Mason & Lewis, LLP: K. M. Mason (203) 255-6560

FIG. 1

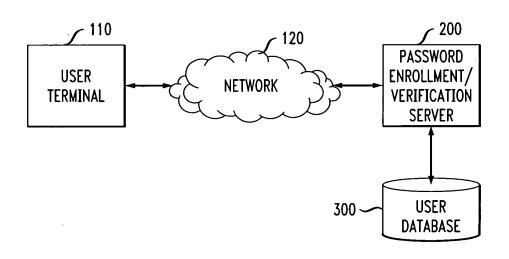
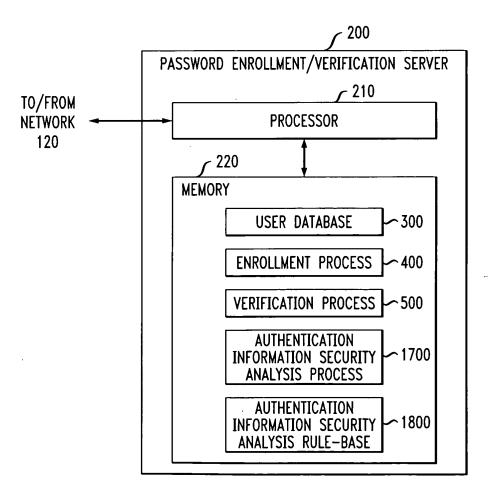


FIG. 2



503048-US-CIP (BAGGA) Serial No. 10/815,191 Ryan, Mason & Lewis, LLP: K. M. Mason (203) 255-6560

2/14 FIG. 3

		USER DATABASE – 300	
	330	340	350
	USER NAME	PASSWORD (ANSWER)	REINFORCEMENT (HINT)
305 🗸	JOHN SMITH	718-555-1212	MANDY'S PHONE NUMBER
310 ~	:	:	:
315~	JON BENTLEY	PEOPLE: FATHER, MOTHER, SISTER, BROTHER CAR: BLUE 1965 MUSTANG TRIP: FROM HOME TO FRESNO VIA HIGHWAY	SANDY KOUFAX'S PERFECT GAME
320 🗸	JILL DOE	12/12/68	FIDO'S OWNER'S BIRTHDAY

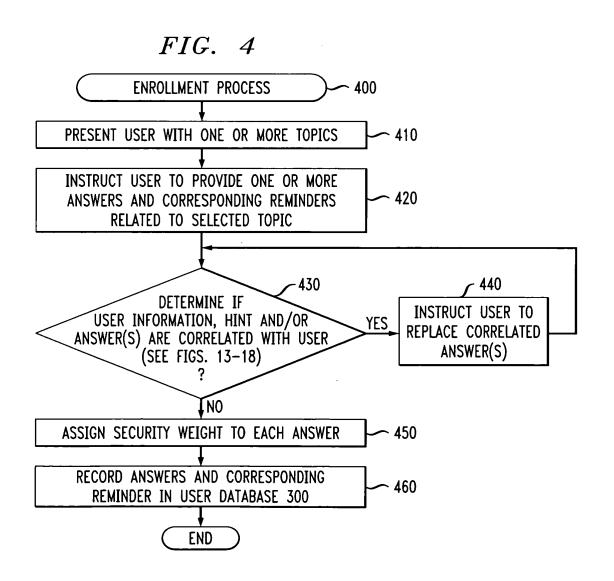
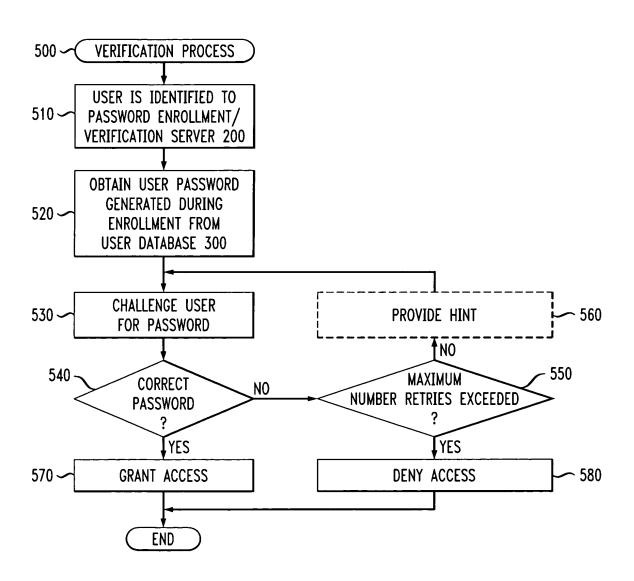


FIG. 5



4/14

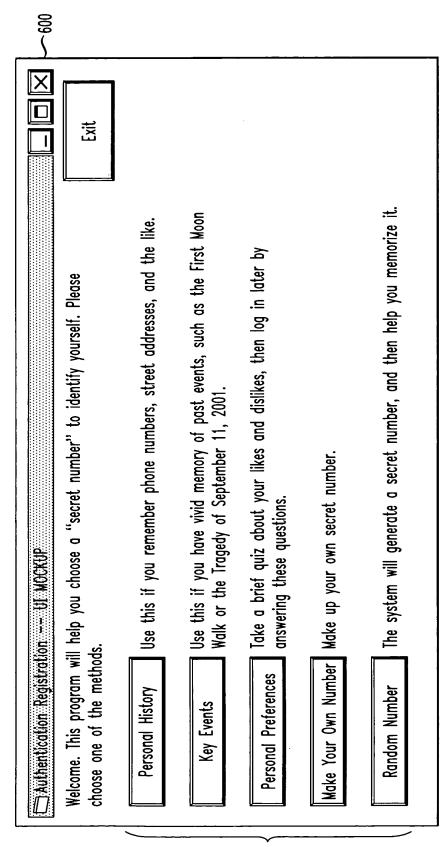
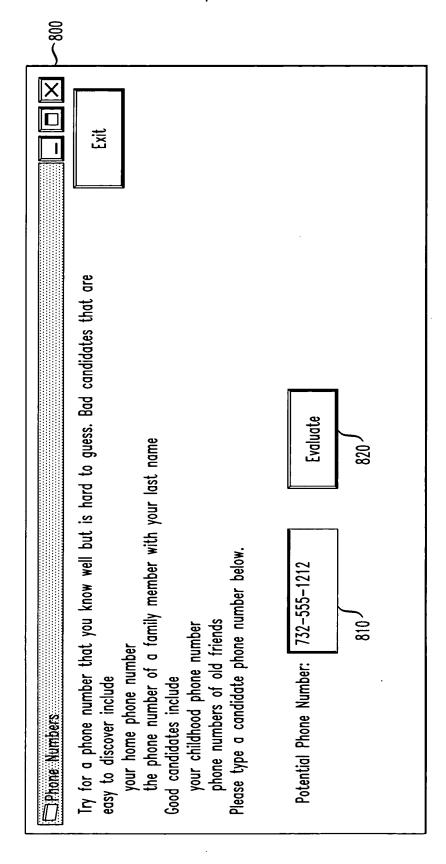


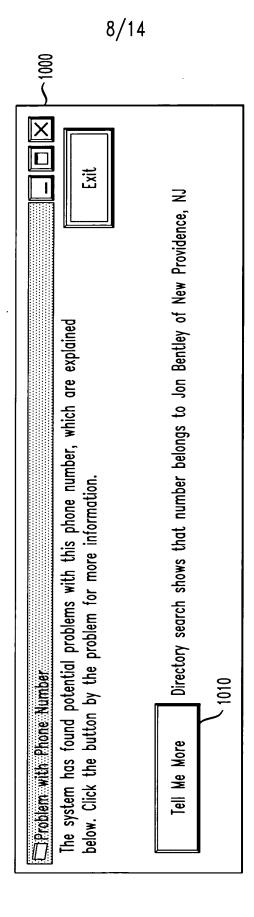
FIG. 6

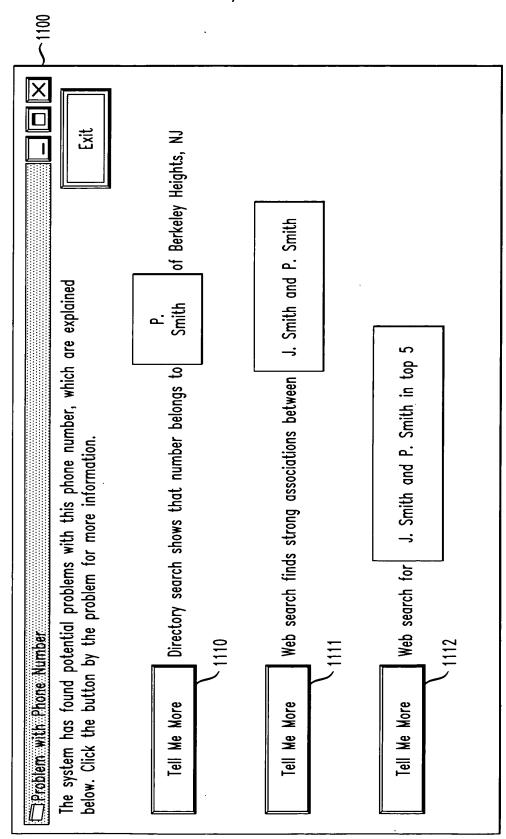
910

□ Personal History		
Try to find numbers that you kno	Try to find numbers that you know very well, yet are hard for attackers to discover.	Exit
Phone Numbers Try this	if you know many phone numbers.	
Street Addresses Try this	s if you know street numbers, zip codes, or PO Box numbers.	
Dates Try this	if you know important personal dates.	
Numbers from Facts certain o	if you know numbers such as the length, width or height of objects.	
Identification Numbers (Warnin	Try this if you once memorized an ID number that you no longer use. (Warning: Social Security numbers are not accepted.)	
Other Numbers Try this events,	Iry this for other numbers, such as model numbers, scores of sports events, etc.	



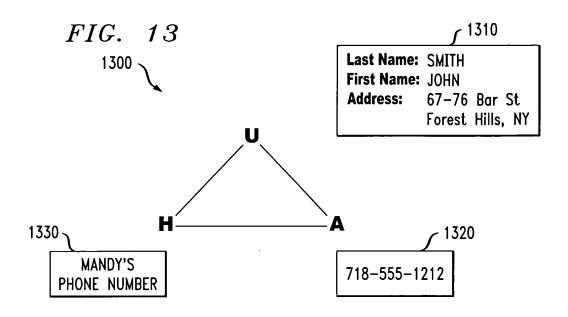
to guess. Bad	Evaluate 920 Finish the Process
nize yet hard for others er people:	o the next step.
to find a reminder that is easy for you to recognize yet nders that could help an attacker include Fred Jones in Boca Raton my brother in Aspen I reminders mean a lot to you, but little to other people: Fluffy and Rover's house (pet's names) Susie and Jimmy's old house (children's names) ou can think of a good reminder, type it in below and proved help, press for assistance.	718–555–1212 Mandy's Phone Number 910^{\int} this reminder, proceed tty another reminder.
IPhone Number Lext In to find a reminder that is easy for you to recognize yet hard for others to guess. Bad reminders that could help an attacker include Fred Jones in Boca Raton my brother in Aspen Good reminders mean a lot to you, but little to other people: Fluffy and Rover's house (pet's names) Susie and Jimmy's old house (children's names) If you can think of a good reminder, type it in below and press Evaluate. If you need help, press for assistance.	Phone Number: 718-555-1212 Potential Reminder: Mandy's Phone Number 910^{\int} Tests passed. If you are comfortable with this reminder, proceed to the next step. If you are not comfortable, try another reminder.

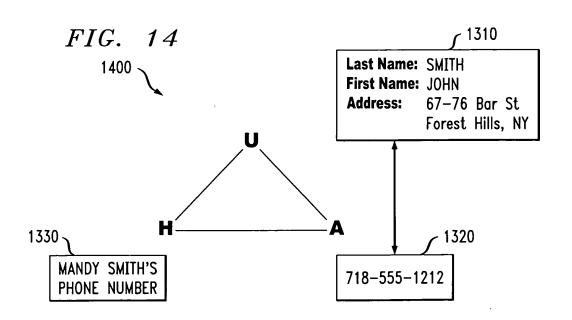




-1200 Exit		Done
5-1212 — 1010 phone number — 1020	secrets if they receive periodic reminders. you wish to receive.	Telephone Reminders Telephone Number: O Weekly O Monthly O None Telephone reminders do not give your secret numbers.
Registration Completion Secret Number: 718-555-1212 Reminder: Mandy's phone num	Many people find it easier to remember their secrets if they receive periodic reminders. Please indicate below what, if any, reminders you wish to receive.	E-Mail Reminders User@mail.adr Frequency of Reminders O Weekly O Monthly O None Check here to receive the secret number along with the reminder.

503048-US-CIP (BAGGA) Serial No. 10/815,191 Ryan, Mason & Lewis, LLP: K. M. Mason (203) 255-6560





503048-US-CIP (BAGGA) Serial No. 10/815,191 Ryan, Mason & Lewis, LLP: K. M. Mason (203) 255-6560

FIG. 15

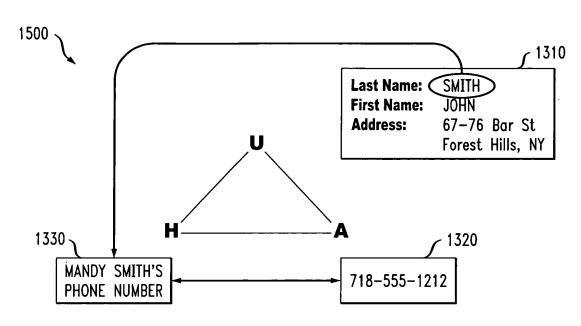


FIG. 16

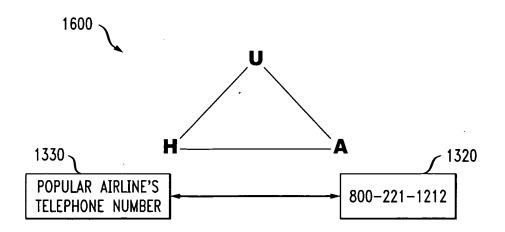
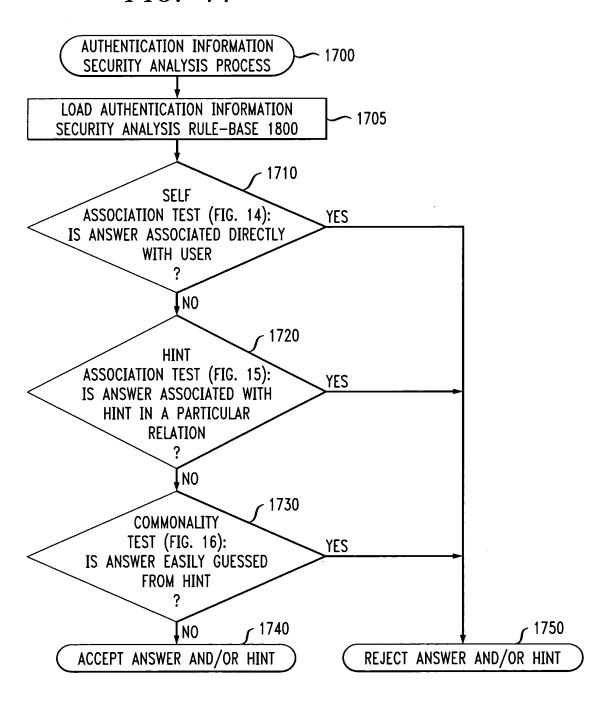


FIG. 17



503048-US-CIP (BAGGA) Serial No. 10/815,191 Ryan, Mason & Lewis, LLP: K. M. Mason (203) 255-6560

14/14

	ı							
AUTHENTICATION INFORMATION SECURITY ANALYSIS RULE-BASE 1800	J 1850	RULE CONDITION(S)	IS USER OWNER OF PROPOSED TELEPHONE NUMBER?	IS USER STRONGLY ASSOCIATED WITH PROPOSED WORD?	IS PERSON ASSOCIATED WITH PROPOSED HINT IN A PARTICULAR RELATION WITH USER?	•••	IS POPULAR BUSINESS ENTITY OWNER OF PROPOSED TELEPHONE NUMBER?	; ; 11
CATION INFORMATION SECURI	J 1840	RULE TYPE	SELF ASSOCIATION	SELF ASSOCIATION	HINT ASSOCIATION	•••	COMMONALITY	
AUTHENTIC	J 1830	RULE NAME	USER TELEPHONE NUMBER	1811 - WORD ASSOCIATION	HINT RELATED TO USER	•••	COMMON TELEPHONE NUMBER	
18			1810	1811	1812~		1820~	1

FIG. 19				1900	00
	<none></none>	COMPILERS	PEARLS	IMAGE	
AUTHOR A	13400	8560 64%	174 1%	921 7%	
AUTHOR B	10700	480 4%	4670 44%	692 6%	
AUTHOR C	2110	34 2%	3 0%	915 43%	

1G. 1